AMENDMENTS TO THE CLAIMS

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A thermoplastic polyolefin (TPO) roofing membrane comprising a reinforcement scrim sandwiched between cap and base layers which are pressed into a single ply membrane having a thickness of about 35-90 mils, characterized in that both of said layers are made of, by weight, 50-90% of metallocene-catalyzed polyethylene and about 10-50% of additives including a crystallinity enhancing polymer comprising high density polyethylene (HDPE), said membrane exhibiting a 90~~%~~ ° heat seam peel strength of ≥ 60 lbs/linear inch (ASTM D-413) and a cold brittleness point of ≤ –50°C (ASTM D-413).

2. (Original) A roofing membrane according to claim 1 wherein said 90° heat seam peel strength is about 66-69 lbs/linear inch over a 4 day period, and said cold brittleness point is about –58 to –70°C.

3-4. (Canceled)

5. (Original) A roofing membrane according to claim 1 wherein the molecular weight distribution (MWD) of said polyolefin is about 2 to 2.5.

6. (Currently amended) A thermoplastic polyolefin (TPO) roofing membrane comprising a reinforcement scrim sandwiched between cap and base layers which are pressed into a single ply membrane having a thickness of about 40-90 mils,

wherein both of said cap and base layers are produced by a process comprising combining, by weight:

(a) 50-90% of the polymeric components of the cap and base layers of metallocene-catalyzed polyethylene;

(b) an ethylene-propylene rubber (EPR); and

(c) a crystallinity enhancing polymer comprising one of the following:

(i) high density polyethylene (HDPE) having a crystallinity of 67 wt.%; and

(ii) polypropylene (PP) having a crystallinity of 50 wt.%.